## What is claimed is:

1. A solution casting method for producing a polymer film from a dope solution containing a polymer and a solvent, comprising steps of:

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casting said dope solution from a casting die on a substrate to form a gel-like film;

drawing said gel-like film in a tangential direction of said substrate to peel said gel-like film from said substrate at a peeling speed of at least 10 m/min;

regulating to less than 20 mm a movement range in which a peeling position of said gel-like film moves on said substrate; and

drying said peeled gel-like film so as to obtain said polymer film.

- 2. A solution casting method as claimed in claim 1, wherein the moving direction of said peeling position changes at least four times in one second along a transporting direction of said substrate.
- 3. A solution casting method as claimed in claim 1, wherein a peeling roller is used for peeing said gel-like film.
- 4. A solution casting method as claimed in claim 3, wherein a length of an internal common tangent of said peeling roller and said substrate is in the range of 0.1 mm to 100 mm.
- 5. A solution casting method as claimed in claim 3, wherein a temperature of said substrate is adjusted in the range of 10  $^{\circ}C$  to 40  $^{\circ}C$  .

- 6. A solution casting method as claimed in claim 5, wherein said peeling speed is at most 150 m/min.
- 7. A solution casting method as claimed in claim 6, wherein a transporting time for transporting said gel-like film on said substrate is in the range of 0.5 min to 10 min.
- 8. A solution casting method as claimed in claim 7, wherein a temperature of said gel-like film at peeling is in the range of 10  $^{\circ}C$  to 50  $^{\circ}C$ .
  - 9. A solution casting method as claimed in claim 3, wherein when a peeling force for peeling said gel-like film is at the maximum, a weight percentage of a remaining solvent in said gel-like film to a weight of said polymer film is determined as a criterion, and while said gel-like film is peeled, said weight percentage of said remaining solvent is in the range of:

5 wt.% to (said criterion measure - 5 wt.%), or (said criterion measure + 5 wt.%) to 50 wt.%.

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- 10. A solution casting method as claimed in claim 9, wherein when a thickness of said polymer film is at most 60  $\mu m$ , a weight percentage of said remaining solvent at peeling said gel-like film is in the range of 5 wt.% to (criterion 5 wt.%).
- 11. A solution casting method as claimed in claim 9, wherein when a thickness of said polymer film is more than 60  $\mu$ m, a weight percentage of said remaining solvent at peeling said gel-like film is in the range of (said criterion measure + 5 wt.%) to 50 wt.%.

12. A solution casting method as claimed in claim 11, wherein when a thickness of said polymer film is more than 60  $\mu m$ , said criterion is 30 wt.%, and a weight percentage of said remaining solvent at peeling said gel-like film is in the range of 35 wt.% to 45 wt.%.

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- 13. A solution casting method as claimed in claim 9, wherein a peeling roller used for peeing said gel-like film is disposed downstream from said substrate, and a distance from said peeling position and said peeling roller is in the range of 0.1 mm to 100 mm.
- 14. A solution casting method as claimed in claim 9, wherein15 a release agent is added to said dope solution.
  - 15. A solution casting method as claimed in claim 3, wherein said solvent is a mixture solvent containing dichloromethane and alcohol, and a weight ratio of said alcohol is more than 8 wt.%.
  - 16. A solution casting method as claimed in claim 15, wherein at least one of methanol, ethanol, n-butanol is used as said alcohol.

17. A solution casting method as claimed in claim 15, wherein

materials which are acids or materials showing characters or properties of acid in said dope solution.

properties or acid in said dope solution.

30 18. A solution casting method as claimed in claim 3, wherein cellulose acylate is used as said polymer.

- 19. A solution casting method as claimed in claim 18, wherein said polymer film is used for a polarizing filter.
- 5 20. A solution casting method as claimed in claim 18, wherein said polymer film is used as a protective film for said polarizing filter.
- 21. A solution casting method as claimed in claim 18, wherein said polymer film is used in a liquid crystal display.